

#3

OIPE

RAW SEQUENCE LISTING DATE: 12/13/2001  
PATENT APPLICATION: US/09/942,935 TIME: 13:47:30

Input Set : A:\032301.216.seq.ST25.txt  
Output Set: N:\CRF3\12132001\I942935.raw

ENTERED

3 <110> APPLICANT: Degussa AG  
5 <120> TITLE OF INVENTION: Nucleotide Sequences Coding for the sigM Gene  
7 <130> FILE REFERENCE: 000449 BT  
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/942,935  
C--> 9 <141> CURRENT FILING DATE: 2001-12-13  
9 <160> NUMBER OF SEQ ID NOS: 4  
11 <170> SOFTWARE: PatentIn version 3.1  
13 <210> SEQ ID NO: 1  
14 <211> LENGTH: 1211  
15 <212> TYPE: DNA  
16 <213> ORGANISM: Corynebacterium glutamicum  
18 <220> FEATURE:  
19 <221> NAME/KEY: CDS  
20 <222> LOCATION: (236)..(907)  
21 <223> OTHER INFORMATION:  
24 <400> SEQUENCE: 1  
25 gacaccaatc cacagatgca gatcgctgaa gtacaacttg ttgggtggta aattacgcgt 60  
27 ttgtgattga ccccccattaa ggtgcggcccg ccctcagttt cactaactga aggccccgcgt 120  
29 ttttaattta tatatagttt cagtcacag gtattttcca gaaagaagag ccctcaaagt 180  
31 atgttagcacc tcagcgacac ctccccacttg agtgggcgcc gagaagtatc tctca atg 238  
32 Met  
33 1  
35 gaa aat ctg ccc ata cta agc cgc ata agg gat acg ggg tgt gtc cct 286  
36 Glu Asn Leu Pro Ile Leu Ser Arg Ile Arg Asp Thr Gly Cys Val Pro  
37 5 10 15  
39 caa cct gcg ggg gat ctt atg aca gta ctg cct aaa aac cat gac cta 334  
40 Gln Pro Ala Gly Asp Leu Met Thr Val Leu Pro Lys Asn His Asp Leu  
41 20 25 30  
43 agc gat acc caa ctc gtc aaa cag ttt ata tct ggc gac tcc agg gca 382  
44 Ser Asp Thr Gln Leu Val Lys Gln Phe Ile Ser Gly Asp Ser Arg Ala  
45 35 40 45  
47 ttt tcc acc atc att cac cgc cac gaa cga cat atg atg cag gca gcc 430  
48 Phe Ser Thr Ile Ile His Arg His Glu Arg His Met Met Gln Ala Ala  
49 50 55 60 65  
51 aga aaa tac ggg cgaa cca gaa gac gcc caa gac att ctc caa gaa 478  
52 Arg Lys Tyr Gly Arg Lys Pro Glu Asp Ala Gln Asp Ile Leu Gln Glu  
53 70 75 80  
55 gct ctc ttt cgc gcc agc cga aac atg cac ctt tat aga gca gaa gca 526  
56 Ala Leu Phe Arg Ala Ser Arg Asn Met His Leu Tyr Arg Ala Glu Ala  
57 85 90 95  
59 gct ctc ggc acg tgg ctc cac aaa ctt gtc ctg aat agc ggc ttc gat 574  
60 Ala Leu Gly Thr Trp Leu His Lys Leu Val Leu Asn Ser Gly Phe Asp  
61 100 105 110  
63 tgg gct acc cac cgc tcc caa gta gaa ttc ccc atc ctt aac gaa cca 622  
64 Trp Ala Thr His Arg Ser Gln Val Glu Phe Pro Ile Leu Asn Glu Pro  
65 115 120 125  
67 aca atc gat tta gaa aaa gat cct cgc cta gcc acc gac ccc ttg ggc 670

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/942,935

DATE: 12/13/2001  
TIME: 13:47:31

Input Set : A:\032301.216.seq.ST25.txt  
Output Set: N:\CRF3\12132001\I942935.raw

68	Thr Ile Asp Leu Glu Asp Pro Arg Leu Ala Thr Asp Pro Leu Gly				
69	130	135	140	145	
71	tac ctc gat gtc gcc atg aca att cga tcc gcc atc gac caa tta cac				718
72	Tyr Leu Asp Val Ala Met Thr Ile Arg Ser Ala Ile Asp Gln Leu His				
73	150	155	160		
75	ccc gat caa cgc atc gcc tta ata ctt gtc gac ctc ggc ggc tac acc				766
76	Pro Asp Gln Arg Ile Ala Leu Ile Leu Val Asp Leu Gly Gly Tyr Thr				
77	165	170	175		
79	gta gaa gat gtg gcc gaa atc gaa gga atc aaa gta ggt acc acc gtt aaa				814
80	Val Glu Asp Val Ala Glu Ile Glu Gly Ile Lys Val Gly Thr Val Lys				
81	180	185	190		
83	tca cgc cga ggg cgc gca cgc aaa gcg ttg cgc gcc ctt tta cat gca				862
84	Ser Arg Arg Gly Arg Ala Arg Lys Ala Leu Arg Ala Leu Leu His Ala				
85	195	200	205		
87	gat ttc ttc ggg ccc gaa gat ggc tcc ata cag tgc gaa agc aac				907
88	Asp Phe Phe Gly Pro Glu Asp Gly Ser Ile Gln Cys Glu Ser Asn				
89	210	215	220		
91	tgttcaaagt ttctgacgtt gaaaacgggtg agttcacaaac tagggtaat				967
93	gggtcacgtg atgctgact ttacgttta ctacttgag ggaaacaatg tctgaagaac				1027
95	aatctgccgt agcacccaaag attcatgatg tcgccccatcat cggctccggt ccagctggct				1087
97	ataccgcagc agtatatgca gccccgcgtg acctcaaccc catcatgttc gagggctatg				1147
99	aatacggtgg atctttgatg accactactg acgtggaaaa cttcccgaggc tttgaaaagg				1207
101	101 gaat				1211
104	<210> SEQ ID NO: 2				
105	<211> LENGTH: 224				
106	<212> TYPE: PRT				
107	<213> ORGANISM: Corynebacterium glutamicum				
109	<400> SEQUENCE: 2				
111	Met Glu Asn Leu Pro Ile Leu Ser Arg Ile Arg Asp Thr Gly Cys Val				
112	1	5	10	15	
115	Pro Gln Pro Ala Gly Asp Leu Met Thr Val Leu Pro Lys Asn His Asp				
116	20	25	30		
119	Leu Ser Asp Thr Gln Leu Val Lys Gln Phe Ile Ser Gly Asp Ser Arg				
120	35	40	45		
123	Ala Phe Ser Thr Ile Ile His Arg His Glu Arg His Met Met Gln Ala				
124	50	55	60		
127	Ala Arg Lys Tyr Gly Arg Lys Pro Glu Asp Ala Gln Asp Ile Leu Gln				
128	65	70	75	80	
131	Glu Ala Leu Phe Arg Ala Ser Arg Asn Met His Leu Tyr Arg Ala Glu				
132	85	90	95		
135	Ala Ala Leu Gly Thr Trp Leu His Lys Leu Val Leu Asn Ser Gly Phe				
136	100	105	110		
139	Asp Trp Ala Thr His Arg Ser Gln Val Glu Phe Pro Ile Leu Asn Glu				
140	115	120	125		
143	Pro Thr Ile Asp Leu Glu Lys Asp Pro Arg Leu Ala Thr Asp Pro Leu				
144	130	135	140		
147	Gly Tyr Leu Asp Val Ala Met Thr Ile Arg Ser Ala Ile Asp Gln Leu				
148	145	150	155	160	
151	His Pro Asp Gln Arg Ile Ala Leu Ile Leu Val Asp Leu Gly Tyr				

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/942,935

DATE: 12/13/2001  
TIME: 13:47:31

Input Set : A:\032301.216.seq.ST25.txt  
Output Set: N:\CRF3\12132001\I942935.raw

152               165               170               175  
155 Thr Val Glu Asp Val Ala Glu Ile Glu Gly Ile Lys Val Gly Thr Val  
156               180               185               190  
159 Lys Ser Arg Arg Gly Arg Ala Arg Lys Ala Leu Arg Ala Leu Leu His  
160               195               200               205  
163 Ala Asp Phe Phe Gly Pro Glu Asp Gly Ser Ile Gln Cys Glu Ser Asn  
164               210               215               220  
167 <210> SEQ ID NO: 3  
168 <211> LENGTH: 28  
169 <212> TYPE: DNA  
170 <213> ORGANISM: Corynebacterium glutamicum  
172 <400> SEQUENCE: 3  
173 caggtacctg gctacgagga cgattaag               28  
176 <210> SEQ ID NO: 4  
177 <211> LENGTH: 28  
178 <212> TYPE: DNA  
179 <213> ORGANISM: Corynebacterium glutamicum  
181 <400> SEQUENCE: 4  
182 tgtctagaaa gcatgcggag gaatcaac               28

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/942,935

DATE: 12/13/2001

TIME: 13:47:32

Input Set : A:\032301.216.seq.ST25.txt  
Output Set: N:\CRF3\12132001\I942935.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date